

Telfords Goes Solar: A PBA Success Story

The Client

Telfords Building Systems is renowned for providing large, economical steel buildings that are widely used throughout Australia and exported to countries such as Vanuatu, Fiji, and Papua New Guinea. For over 35 years, they have been a trusted name in pre-engineered metal building systems.

The Project

At the Telfords site in Shepparton, a 409kW roof-mounted solar system was installed as part of a VEEC project. This substantial solar installation is a significant step towards enhancing Telfords' sustainability profile and reducing greenhouse gas emissions.

Our Role

Northmore Gordon managed the complete lifecycle of the VEEC project, from initial planning to final implementation. We executed a seamless handover process between two project managers, ensuring continuity and precision in our work. Our expertise in Measurement and Verification (M&V) allowed us to accurately measure energy savings and maximize the project's benefits. Through consistent quarterly follow-ups with Telfords, we maintain a strong client relationship, leading to successful outcomes and exceeding initial energy and cost-saving estimates.

Northmore Gordon is a leader in environmental certificate creation and trading. We have created the most certificates of all Accredited Persons under the Victorian Energy Upgrades program, an Accredited Certificate Provider in the NSW Energy Savings Scheme, and registered agent under the Federal Renewable Energy Target.

Challenges

There were changes in energy consumption onsite, potentially due to modifications in equipment or production processes, as well as other unknown factors. These fluctuations made it challenging to determine the energy savings of the upgrade using the traditional Measurement & Verification (M&V) method, which relies on a pre-installation baseline. However, by employing the VSS method (concurrent baseline), we were able to accurately determine the exact savings of the Energy Conservation Measure (ECM), which would not have been possible with the traditional approach.

- **Data Availability:** We worked through a two month period to gather the necessary data from the client, ensuring we had all the critical information required for an accurate assessment
- **Energy Consumption Patterns:** The site experienced unique fluctuations in energy consumption, providing us with an opportunity to delve deeper into understanding and addressing these variations

We've provided \$100m of financial incentives for energy efficiency and renewable energy projects at over 35,000 commercial, industrial and residential sites. This has saved our clients and partners gigawatt hours of energy, millions of dollars and reduced greenhouse gas emissions by over 5 million tonnes of CO₂e.

Key Facts

- **Project:** 409kW Solar PBA Installation
- **Generation:** 591 MWh (Actual) vs. 516 MWh (Estimated)
- **VEECs Created:** 2,212 (Actual) vs. 1,503 (Estimated)
- **Certificate Value:** \$105,000 (Actual) vs. \$46,442 (Estimated)
- **Annual Savings:** 264 MWh (Actual) vs. 201 MWh (Estimated)
- **Method Used:** Measurement & Verification

The project exceeded initial estimates by generating 23% more VEECs, resulting in an additional \$52,000 in value.

- **Reduction in Energy Consumption and Costs:** The project led to a significant decrease in energy usage, resulting in substantial savings on energy bills for Telfords.
- **Lower CO₂ Emissions:** The implementation of the solar system contributed to a notable reduction in CO₂ emissions, aligning with environmental sustainability goals.
- **Enhanced System Performance:** Northmore Gordon provided assurance to Telfords that the solar system installed by Watters Electrical exceeded performance expectations, further validating the effectiveness of the investment.



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